

FIG 1A

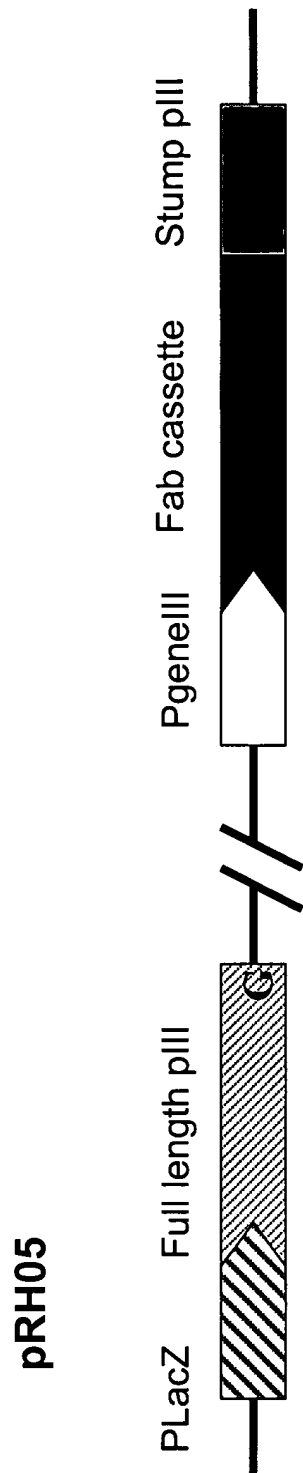




FIG 1B

 Synthetic genenIII sequence

 Wild type genenIII sequence

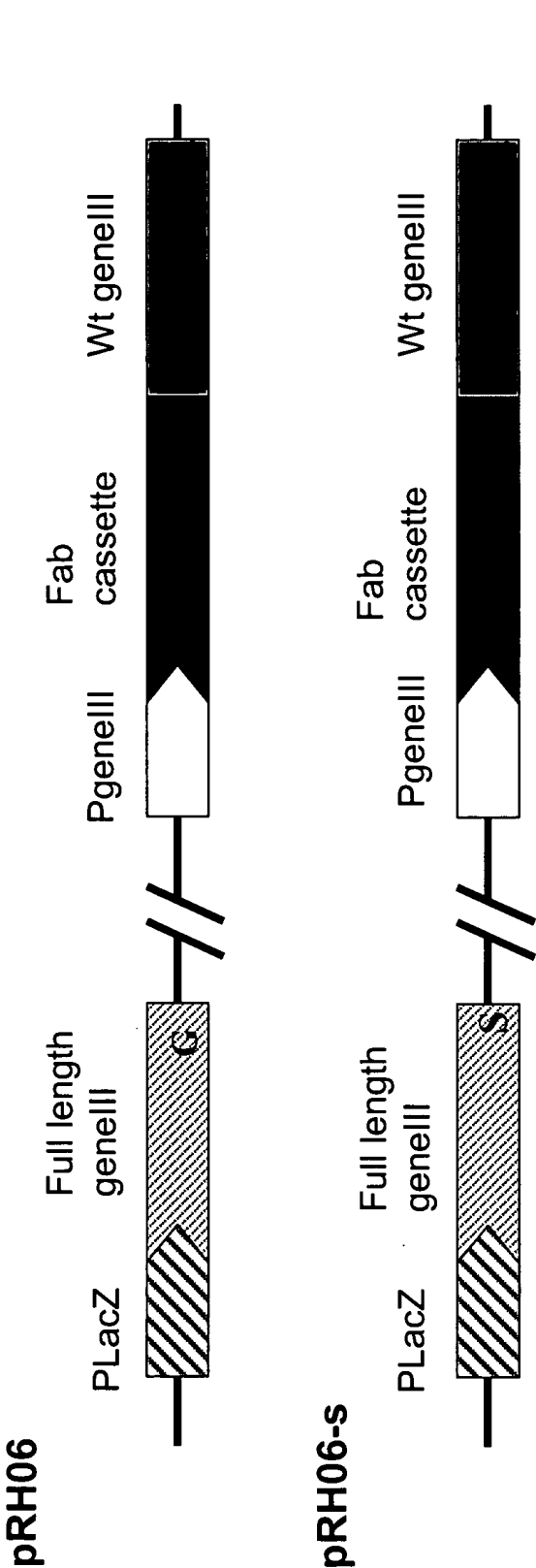


FIG 1C

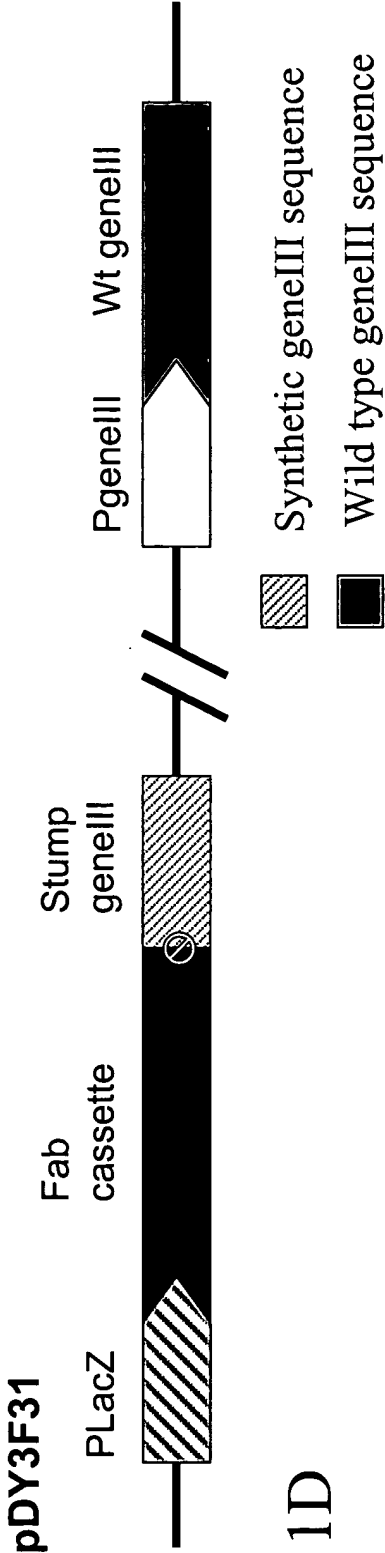


FIG 1D

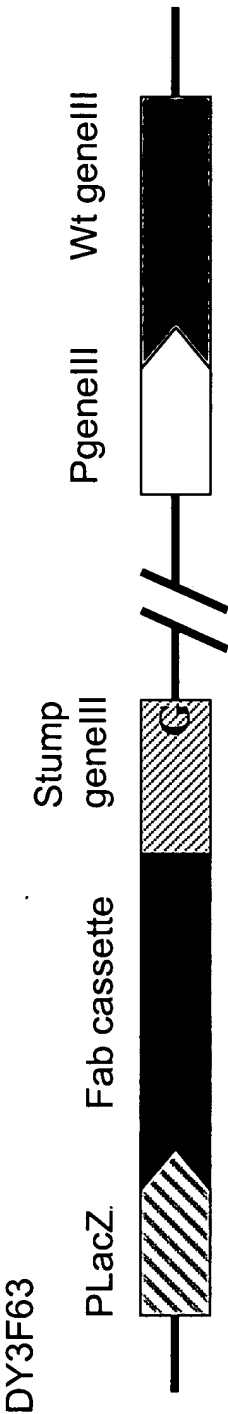


FIG 1E

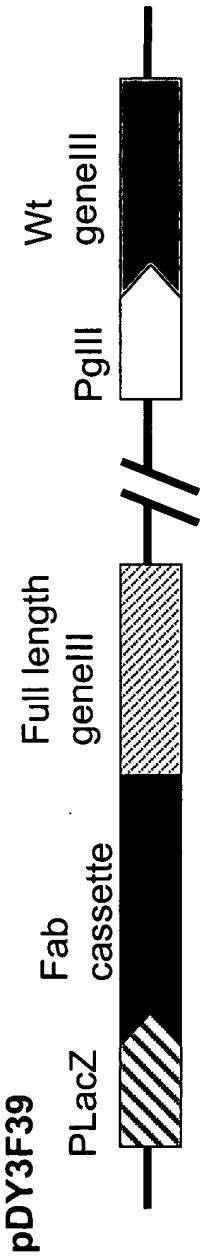


FIG 1F

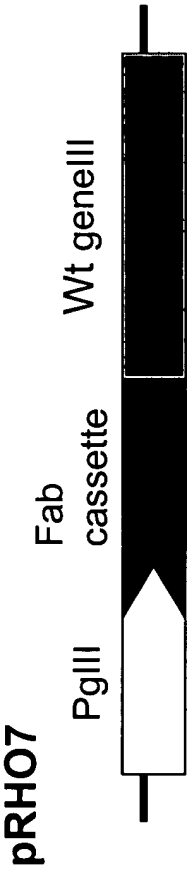



FIG 1G

 Synthetic geneIII sequence


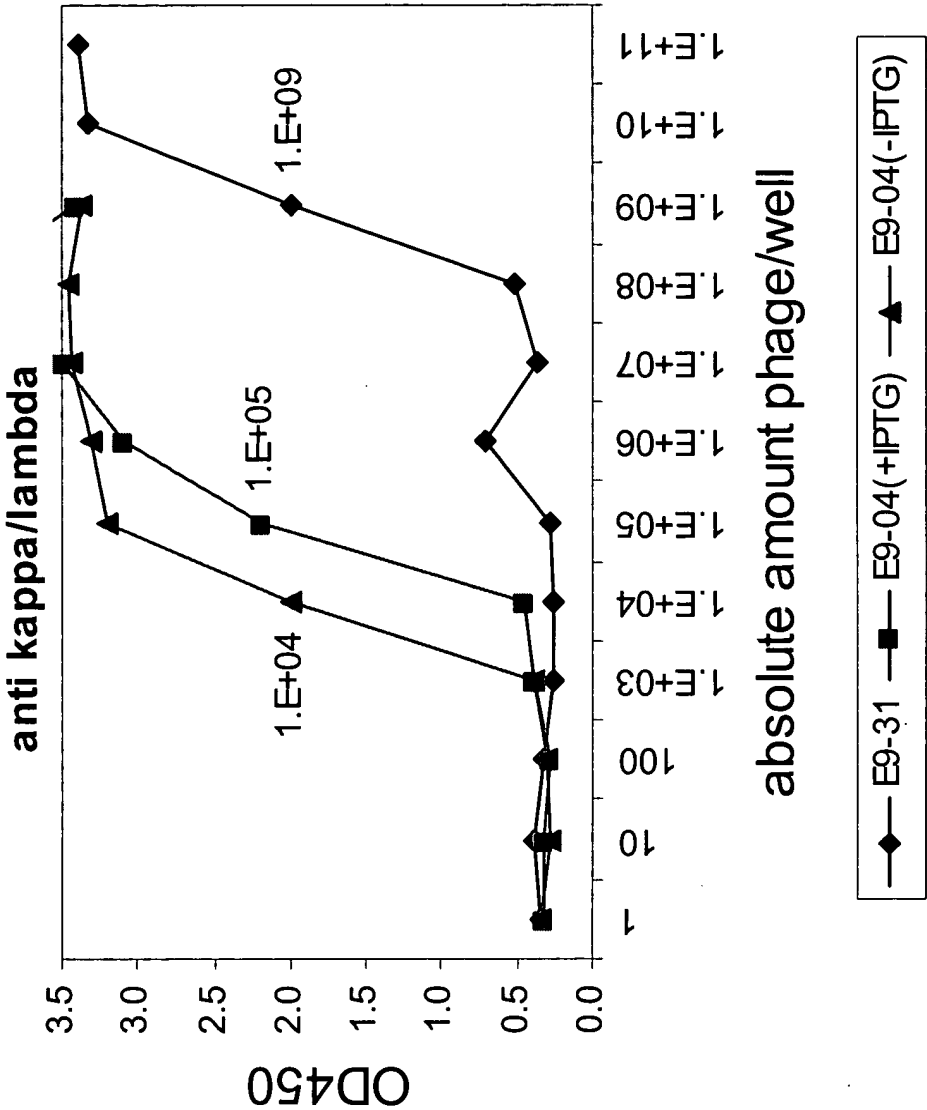
 Wild type geneIII sequence

FIG 2



Display ELISA Using Different Libraries

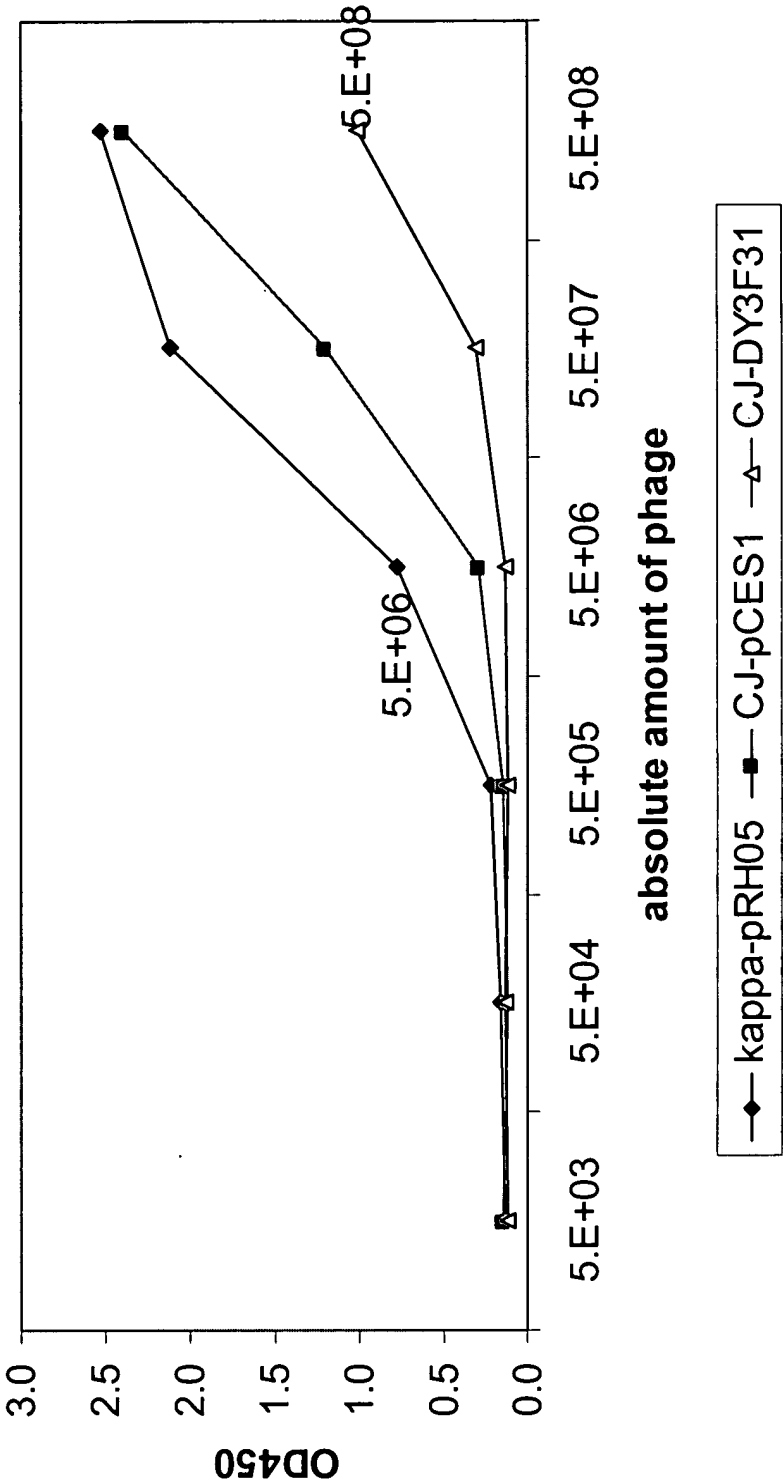


FIG 3

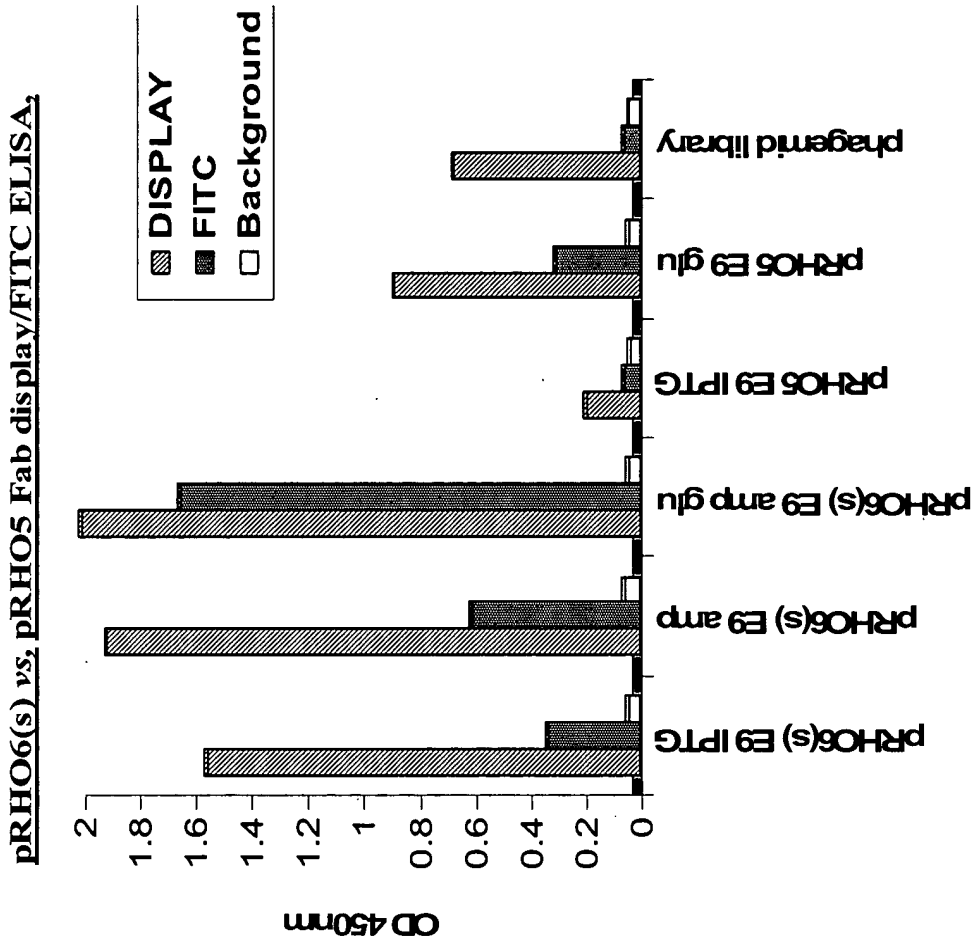
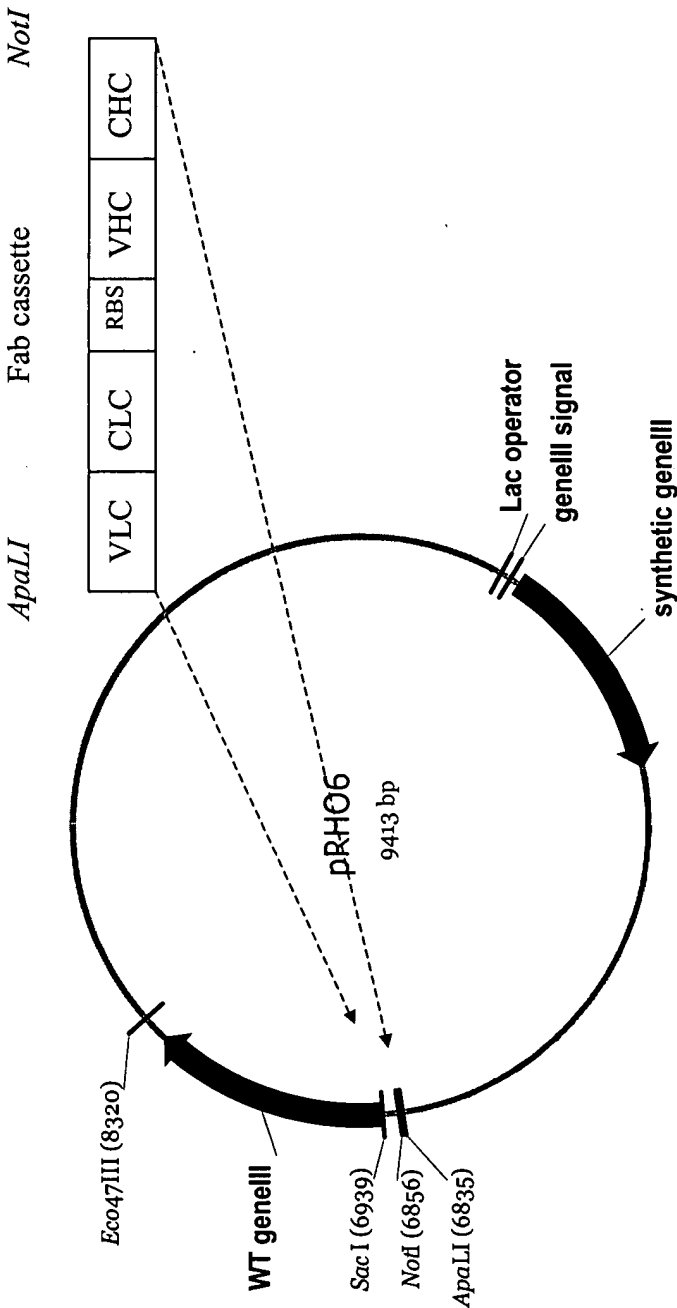
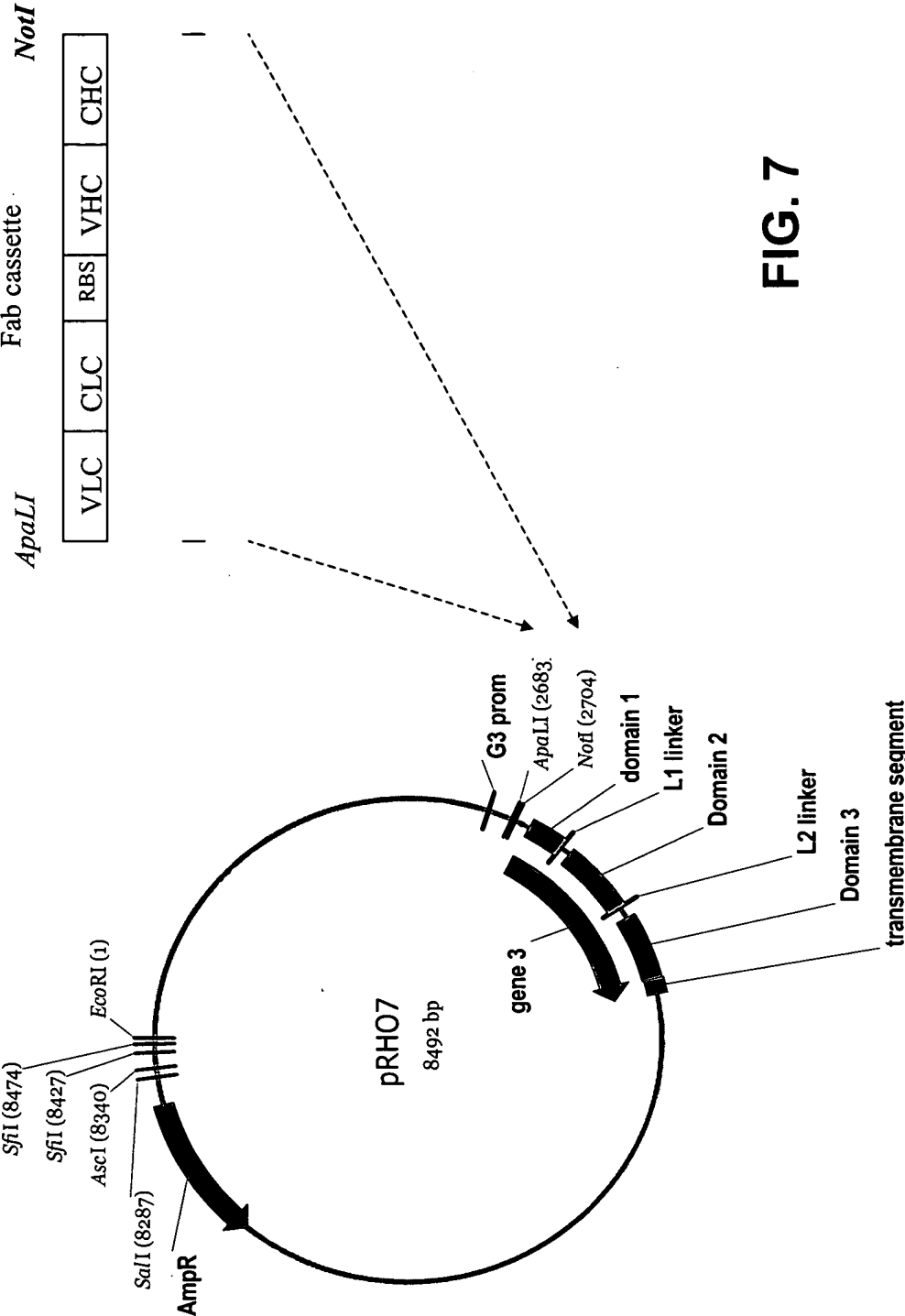


FIG. 4

FIG. 6





	→ domain1			
M13MP18 - wild type	1	TVESCLAKSH	TENSFTNVWK	DDKTLDRYAN YEGCLWNATG VVVCTGDETQ
PRH04+PRH06-S synthetic	1	TVESCLAKSH	TENSFTNVWK	DDKTLDRYAN YEGCLWNATG VVVCTGDETQ
		←→ linker 1	←→ domain 2	
M13MP18 - wild type	51	CYGTWVPIGL	AIPENEGGS	EGGSEGGGS EGGTKPPEY GDTPIPGYTY
PRH04+PRH06-S synthetic	51	CYGTWVPIGL	AIPENEGGS	EGGSEGGGS EGGTKPPEY GDTPIPGYTY
M13MP18 - wild type	101	INPLDGTYP	GTEQNPNPN	PSLEESQPLN TFMFQNNRFR NRQGALTIVYT
PRH04+PRH06-S synthetic	101	INPLDGTYP	GTEQNPNPN	PSLEESQPLN TFMFQNNRFR NRQGALTIVYT
M13MP18 - wild type	51	GTVTQGTDP	KTYQYTPVS	SKAMYDAYWN GKFRDCAFHS GFNEDLFVCE
PRH04+PRH06-S synthetic	151	GTVTQGTDP	KTYQYTPVS	SKAMYDAYWN GKFRDCAFHS GFNEDPFVCE *
			←→ linker 2	
M13MP18 - wild type	201	YQGQSSDLPQ	PPVNAGGSG	GGSGGSEGG GSEGGSGGG
PRH04+PRH06-S synthetic	201	YQGQSSDLPQ	PPVNAGGSG	GGSGGSEGG GSEGGSGGG
		←→ domain 3		
M13MP18 - wild type	251	SGSGDFDYEK	MANANKGAMT	ENADENALQS DAKGKLDSVA TDYGAIDGF
PRH04+PRH06-S synthetic	251	SGSGDFDYEK	MANANKGAMT	ENADENALQS DAKGKLDSVA TDYGAIDGF

FIG. 8A

M13MP18 - wild type	301	IGDVSGLANG	NGATGDFAGS	NSQMAQVGDG	DNSPLMNNFR	QYLPQLPQSV
PRH04+PRH06-S synthetic	301	IGDVSGLANG	NGATGDFAGS	NSQMAQVGDG	DNSPLMNNFR	QYLPQLPQSV
				←→	transmembrane segment	←→
M13MP18 - wild type	351	ECRPFVFGAG	KPYEFSIDCD	KINLFRGVFA	FLLYVATFMY	VFSTFANILR
PRH04+PRH06-S synthetic	351	ECRPFVFSAG	KPYEFSIDCD	KINLFRGVFA	FLLYVATFMY	VFSTFANILR
				*		
M13MP18 - wild type	401			anchor		
PRH04+PRH06-S synthetic	401			NKES		
				NKES		

FIG. 8B